

ABSTRACT

A bearing fixed assembly in a direct current fan comprises a fan blade unit, a fan base, and a motor unit.

5 The fan base is disposed next to the fan blade unit and the motor unit is arranged between the fan blade unit and the fan base. The fan blade unit further comprises an integral fan blade, a spindle, a motor casing, and a magnet bar. The spindle is disposed at a lower periphery central position
10 of the fan blade and extends to the fan base. The motor casing is disposed at a lower periphery inner side of the fan blade and the magnet bar is disposed at an inner side of the motor casing. The fan base further comprises a spindle seat, a retaining ring, a washer, and at least a bearing. The spindle
15 seat has a lower closed containing space filled with lubrication oil. The retaining ring is attached to the spindle next to the spindle seat. The washer is arranged on top of the retaining ring. The bearing is disposed above the washer to fit with the spindle and constitute a closed
20 oil chamber with the spindle the washer, the retaining ring, and the spindle seat. The motor unit surrounds the spindle seat and comprises an insulation stand, silicon sheets, a circuit board, and coils. The silicon sheets surround the insulation stand, the circuit board is disposed under the
25 insulation stand, and the coils are wound in the insulation stand.